PATENT COOPERATION TREATY

RECEIVED

MAR 2 7 2007

From the INTERNATIONAL SEARCHING AUTHORITY

PCTackson & Co., LLP

ANDREW V. SMITH	PC Putation at Co., ELP		
JACKSON & CO. LLP 6114 LA SALLE AVENUE, #507 OAKLAND. CA 94611-2802	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION		
	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 0 6 MAR 2007		
Applicant's or agent's file reference FN-143-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No. PCT/US06/32959	International filing date (day monthyear) 22 August 2006 (22.08.2006)		
Applicant FOTONATION VISION LIMITED			
The applicant is hereby notified that the international season have been established and are transmitted herewith.	reh report and the writte pinion of the International Scarching Authority		
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla			
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international		
Where? Directly to the International Bureau of WIPC 1211 Geneva 20, Switzerland, Facsimile No			
For more detailed instructions, see the notes on the a	ecompanying sheet.		
The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the international Searching Authority are transmitted herewith.			
With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has be request to forward the texts of both the protest and the texts of both the protest and the protest are protected.	en transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices.		
	plicant will be notified as soon as a decision is made.		
4. Reminders			
Bureau. If the applicant wishes to avoid or postpone publication priority claim, must reach the International Bureau as provided in technical preparations for international publication.	e, the international application will be published by the International on, a notice of withdrawal of the international application, or of the 1 Rules 90bis.1 and 90bis.3, respectively, before the completion of the		
International Bureau. The International Bureau will send a cop- preliminary examination report has been or is to be established, before the expiration of 30 months from the priority date.	the written opinion of the International Searching Authority to the y of such comments to all designated Offices unless an international These comments would also be made available to the public but not		
examination must be filed if the applicant wishes to postpone the	of some designated Offices, a demand for international preliminary e entry into the national phase until 30 months from the priority date ain 20 months from the priority date, perform the prescribed acts for		
In respect of other designated Offices, the time limit of 30 month	is (or later) will apply even if no demand is filed within 19 months.		
See the Annex to Form PCT/IB/301 and, for details about the ap Volume II. National Chapters and the WIPO Internet site.	plicable time limits, Office by Office, see the PCT Applicant's Guide.		
Name and mailing address of the ISA/ US	Authorized officer		
Mail Stop PCT, Attn. ISA/US Commissioner for Patents	Amir Alavi		
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 571-272-7386		

RECEIVED

MAR 2 7 2007

From the INTERNATIONAL SEARCHING AUTHORITY

PCT Jackson & Co., LLP

ANDREW V. SMITH JACKSON & CO., LLP

6114 LA SALLE AVENUE, #507 OAKLAND. CA 94611-2802	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)			
	Date of mailing (day/month/year) 06 WAR 2007			
Applicant's or agent's life reference FN-143-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US06/32959	International filing date (day month year) 22 August 2006 (22.08.2006)			
Applicant FOTONATION VISION LIMITED				
The applicant is hereby notified that the international sear have been established and are transmitted herewith.	ch report and the written opinion of the International Searching Authority			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the cla				
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international			
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.				
For more detailed instructions, see the notes on the ac-	ecompanying sheet.			
The applicant is hereby notified that no international searc Article 17(2)(a) to that effect and the written opinion of the	h report will be established and that the declaration under e International Searching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made				
4. Reminders				
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid to pustoone publication, a notice of withdrawal of the international policitation, or of the priority claim, must reach the International Dureau as provided in Rules 90bis. I and 90bis. I, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureaut. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant whistes to postpone the entry into the radional phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.				
Volume II, National Chapters and the WIPO Internet site.	blicable time limits, Office by Office, see the PCI Applicant's Guide.			
Name and mailing address of the ISA/ US Mail Stop PCT, Aitn: ISA/US	Authorized officer			
Commissioner for Patents	Amir Alavi			
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Telephone No. 571-272-7386			

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

see Form PCT/ISA/220

FOR FURTHER

FN-143-PCT	N-143-PCT ACTION as well as, where applicable, item 5 below	
International application No. PCT/US06/32959	International filing date (day/mont 22 August 2006 (22.08.2006)	(Earliest) Priority Date (day/month/year) 11 August 2006 (11.08.2006)
Applicant FOTONATION VISION LIMITED		
This international search report consists of It is also accompanied Basis of the Report a. With regard to the language, the international a translation of the of a translation of the constant of the const	transmitted to the International But of a total of sheets. by a copy of each prior art documenternational search was carried out opplication in the language in which is international application into mished for the purposes of international candidor amino acid sequence discussearchable (See Box No. II) g (See Box No. III)	on the basis of: if was flied. , which is the language ional search (Rules 12.3(a) and 23.1(b)) closed in the international application, see Box No. 1
	according to Rule 38.2(b), by this /	Authority as it appears in Box No. IV. The applicant onal search report, submit comments to this Authority.
 With regard to the drawings, a. the figure of the drawings to be p as suggested by the a 	ublished with the abstract is Figure	No. <u>1</u>
<u></u>	•••	ad to suggest a figure
	uthority, because the applicant faile uthority, because this figure better o	
b. none of the figures is to be pu		Characterizes the mystaton.
b none of the figures is to be po	apriance with the abstract.	

Form PCT/ISA/210 (first sheet) (April 2005)

Applicant's or agent's file reference

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/32959

0117	TEXT OF THE	ABSTRACT	(Continuation of	f Item 5 of the first sheet)

Box IV TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)				
An image processing apparatus for tracking faces in an image stream iteratively receives a new acquired image from the image stream, the image potentially including one or more face regions. The acquired image is sub-sampled (112) at a specified resolution to provide a sub-sampled image. An integral image is then calculated for a least a portion of the sub-sampled acquired image. Fixed sixe face sub-sampled is applied to a least a portion of the integral image to provide a set of candidate face regions. Responsive to the set of candidate face regions produced and any previously detected candidate face regions, the resolution at which a next acquired image is sub-sampled is adjusted.				

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/32959

	SSIFICATION OF SUBJECT MATTER				
IPC:	G06K 9/00(2006.01),9/32(2006.01),9/34(2006.0	11).9/40(20	106.01)		
i					
USPC: According to	382/115,118,173,254,299,300 International Patent Classification (IPC) or to both na	tional class	sification and IPC		
/ tecoroning to	incinational them chashed in (ii c) of to both he	ational clas	sincation and it c		
B. FIEL	DS SEARCHED				
	cumentation searched (classification system followed	by classific	ation symbols)		
U.S. : 31	82/115.118,173,254,299,300				
Documentati	on searched other than minimum documentation to the	extent tha	such documents are included in	the fields searched	
		_			
Electronic da	ta base consulted during the international search (nam	e of data ba	ise and, where practicable, search	n terms used)	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	nnronriata	of the selmont procusor	Relevant to claim No	
A	US 7,082,212 A (L1U et al) 25 July 2006 (25.07.200			I-57	
^	OS 7,082.212 X (LIO et al) 23 July 2006 (23.07.200	o, column	10, Illies 12-55.	1-57	
1					
$\overline{}$					
	documents are listed in the continuation of Box C.	Ш	See patent family annex.		
, S	pecial categories of cited documents.	"T"	later document published after the inter- date and not in conflict with the applica	stional filing date or priority fion but cited to understand the	
"A" document particular	defining the general state of the art which is not considered to be of		principle or theory underlying the invent	ion	
		"X"	document of particular relevance, the ele- considered novel or cannot be considered		
	dication of patent published on or after the international filing date		when the document is taken alone	to to aware an inventive step	
"L" document establish i	which may throw doubts on priority claim(s) or which is cited to be publication date of another citation or other special reason (as	Y	document of particular relevance; the cla	nined invention came the	
specified)	,		considered to involve an inventive step with one or more other such documents.	when the document is combined	
"O" document	referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art	such combination or nig	
	published prior to the international filing date but later than the	-&"	document member of the same patent fa	indy	
priority da					
	tual completion of the international search	Date of n	naiting of the international search	report	
	07 (30.01.2007)	Authoriz	MAR 2007		
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US			.∩- <i>N</i>		
Commissioner for Patents			Amir Alavi		
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571-272-7386					
Facsimile No. (571) 273-3201					
Form PCT/ISA	/210 (second sheet) (April 2005)				

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY PCT ANDREW V. SMITH JACKSON & CO., LLP 6114 LA SALLE AVENUE, #507 WRITTEN OPINION OF THE OAKLAND, CA 94611-2802 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing FOR FURTHER ACTION (day/month/year) Applicant's or agent's file reference See paragraph 2 below FN-143-PCT International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US06/32959 22 August 2006 (22.08.2006) 11 August 2006 (11.08.2006) International Patent Classification (IPC) or both national classification and IPC G06K 9/00(2006.01),9/32(2006.01),9/34(2006.01),9/40(2006.01) USPC: 382/115.118.173.254.299.300 Applicant FOTONATION VISION LIMITED 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box Vo. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis, I(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66 1his/h) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further ontions, see Form PCT/ISA/220. 3. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/ US Date of completion of this opinion Mail Stop PCT, Attn: ISA/US Commissioner for Patents 30 January 2007 (30.01.2007) P.O. Box 1450

Telephone No. 571-272-7386

Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201 Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US06/32959

Box No. V Reasoned statement under Rule 43 b applicability; citations and explanation	is.1(a)(i) ons supp	with regard to novelty, inventive step or industrial orting such statement			
1. Statement					
Novelty (N)	Claims	1-57 NONE	_YES _NO		
	Claims	NONE	_		
Inventive step (IS)	Claims	1-57 NONE	_YES NO		
			_		
Industrial applicability (IA)	Claims	1-57 NONE	_YES _NO		
2. Citations and explanations:			Lanes an		
fixed size face detection to at least a portion of an integra	Claims 1-57 meet the criteria set out in PCT Article 33(2):41, because the Prior Art does not teach or fairly suggest applying at least a fixed size face detection to at least a portion of an integral image to provide a set of candidate face regions, each candidate face regions, having a given size and a respective location and responsive to the size and location of set of candidate face regions and any preciously detected face regions, adjusting the resolution at which a next acquired image is sub-sampled.				

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is can wided;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims!:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:

"Claims I-10 unchanged; claims I1 to I3, I8 and I9 cancelled; claims I4, I5 and I6 replaced by amended claim I4; claim I7 subdivided into amended claims I5, I6 and I7; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for immenational preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International at translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority are pely to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCI/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(e)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.